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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/767,596	01/29/2004	Krishna C. Ratakonda	YOR920030575US1 5215 (17183)		
2000	7590 03/19/200 TT MURPHY & PRES	EXAMINER			
400 GARDEN		LUGO, DAVID B			
SUITE 300 GARDEN CITY	Y. NY 11530	ART UNIT	PAPER NUMBER		
3.1.(32.)	-,	2611			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MOI	NTHS	03/19/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.		Applicant(s)  RATAKONDA ET AL.			
Office Action Summary		10/767,596					
		Examiner		Art Unit			
		David B. Lug	<b>э</b> о	2611			
Period fo	The MAILING DATE of this communication ap	ppears on the o	over sheet with the co	orrespondence ac	idress		
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING IS is is is of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event d will apply and will e ute, cause the applica	S COMMUNICATION  , however, may a reply be time  expire SIX (6) MONTHS from to become ABANDONED	I. lely filed the mailing date of this c O (35 U.S.C. § 133).	,		
Status							
2a)□ 3)□	Responsive to communication(s) filed on 29. This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowed closed in accordance with the practice under	is action is nor ance except fo	or formal matters, pro		e merits is		
Disposition of Claims							
5)⊠ 6)⊠ 7)⊠ 8)□ <b>Applicati</b> 9)□ 10)⊠	Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) 4-13 and 16-20 is/are allowed.  Claim(s) 2,14 and 21 is/are rejected.  Claim(s) 1,3,15 and 22 is/are objected to.  Claim(s) are subject to restriction and/on Papers  The specification is objected to by the Examin The drawing(s) filed on 29 January 2004 is/are to the specification to the specification to the specification to the specification of the specification of the specification is objected to by the Examin The drawing(s) filed on 29 January 2004 is/are the specification to the	awn from cons /or election rec ner. re: a)⊠ accep	<sub>l</sub> uirement. oted or b)⊡ objected	•	ner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice Notice Notice Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		Paper No(s)/Mail Da Notice of Informal Pa	ite			

#### **DETAILED ACTION**

### Claim Objections

- 1. Claims 1-3 are objected to because of the following informalities:
  - a. Claim 1, line 16, it is suggested that "outputting a resultant values" be changed to --outputting resultant values--.
  - b. Claim 2, line 13, it is suggested that "outputting a resultant values" be changed to --outputting resultant values--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 2 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamaguchi et al. U.S. Patent 6,256,346.

Regarding claims 2 and 14, Yamaguchi discloses a method for encoding predictively encoded sequences of symbols over a plurality of channels and a encoding apparatus in Figure 1 comprising a signal source transmitting a signal 10 over a channel, the channel comprising at least two transmission channels (outputs of buffers 160, 161), two signal adding means (110, 111), each receiving the signal transmitted from the signal source and forming a coefficient by subtracting a differing predictive value (outputs of prediction sections 200, 201, respectively) from the signal, two quantizing means (130, 131) for receiving a differing coefficient value from

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the adding means and performing the operation of quantizing the received coefficient values and outputting resultant values, and two encoder means (140, 141) for receiving the coefficients from the signal quantizing means transforming the coefficients into encoded values for transmission, where the number of transmitted coefficients is less than the number generated by the transformation according to the system coding efficiency.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al.

Regarding claim 21, Yamaguchi discloses a method for transmitting predictively encoded sequences of symbols over a plurality of channels, where in Figure 1 a signal source transmits a signal 10 over a channel, the channel comprising at least two transmission channels (outputs of buffers 160, 161), two signal adding means (110, 111), each receive the signal transmitted from the signal source and form a coefficient by subtracting a differing predictive value (outputs of prediction sections 200, 201, respectively) from the signal, two quantizing means (130, 131) receive a differing coefficient value from the adding means and perform the operation of quantizing the received coefficient values and outputting resultant values, and two encoder means (140, 141) receive the coefficients from the signal quantizing means transform the coefficients into encoded values for transmission, where the number of transmitted coefficients is less than the number generated by the transformation according to the system coding efficiency.

Yamaguchi does not disclose that the steps of the method are included in a computer readable medium executed by a processor. However, it is well known in the art to implement video encoding methods using software stored in a computer readable medium. Therefore, it would have been obvious to one of ordinary skill in the art to store instructions implementing the steps of Yamaguchi for execution by a processor, as software and hardware implementations are well recognized art equivalents.

## Allowable Subject Matter

- 6. Claims 4-13 and 16-20 are allowed.
- 7. Claim 1 would be allowable if rewritten or amended to overcome the objection set forth in this Office action.
- 8. Claims 3, 15 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and rewritten to overcome the objections set forth in this Office action.

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David B. Lugo whose telephone number is 571-272-3043. The examiner can normally be reached on M-F; 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David B. Lugo Patent Examiner

3/9/07